

WISCONSIN

NATURAL HISTORY

E. A. BIRGE, Director.

Hydrographic Map

OF 30318

Lake Geneva,
Wisconsin.

Hydrography in Charge of L. S. SMITH.

Field Work by H. M. TRIPPE, 1898.

MADISON, WIS.
1898.

our lines the outline of the shows, of course, ordinary level. The map through the points depth of 3 meters, or . . . It indicates also what the outline of the would be if the water were lowered about 10 feet. The next line to this marks the depth of 6 meters, or nearly 20 feet, and so of the succeeding lines. The space between any line and that next outside of it indicates the distance required for the depth of the water to increase 3 meters (9.84 feet). The lines serve, therefore, to indicate the slope of the bottom as well as the depth of the water. Where the lines are close together, as off Black Point or Camp Collic, the slope is steep. Where they are far apart, as in Button's Bay, the slope of the bottom is correspondingly gradual.

The soundings on which the map is based were made during the winter of 1898 through the ice. A line of soundings was run from east to west along the axis of the lake, and cross lines run to the shore at distances of one-fourth mile, or less. Nearly 600 soundings were taken and the position of each was determined by chain and transit. The vertical distance indicated by the contours is 3 meters. This depth is so close to 10 feet (being only about 1.9 inches short of that depth) that on a small scale map like the present, no serious error is made if the contour interval is regarded as equal to 10 feet. In lettering the map the lines have been marked on this basis, but it should be understood that the accurate figures are those given in meters. In the sections the depth is stated in feet.

The sections of the lake are drawn on two scales. In those marked A the vertical scale is the same as the horizontal—2 inches to the mile. They show plainly how shallow a lake is in proportion to its size, even when as deep as lake Geneva—the second deepest inland lake in the state. In these sections the slope of the shores is the same as in nature and will be seen to be very far from vertical; even the steepest slopes are quite gradual. In sections marked B the vertical scale is enlarged three times so as to show better the details of the bottom. The steepness of the slope of the shore in these sections is exaggerated in proportion to the enlargement of the vertical scale.

The length of the lake, its breadth at various places, and its depth are given on the map. Its area is about 8.6 square miles.

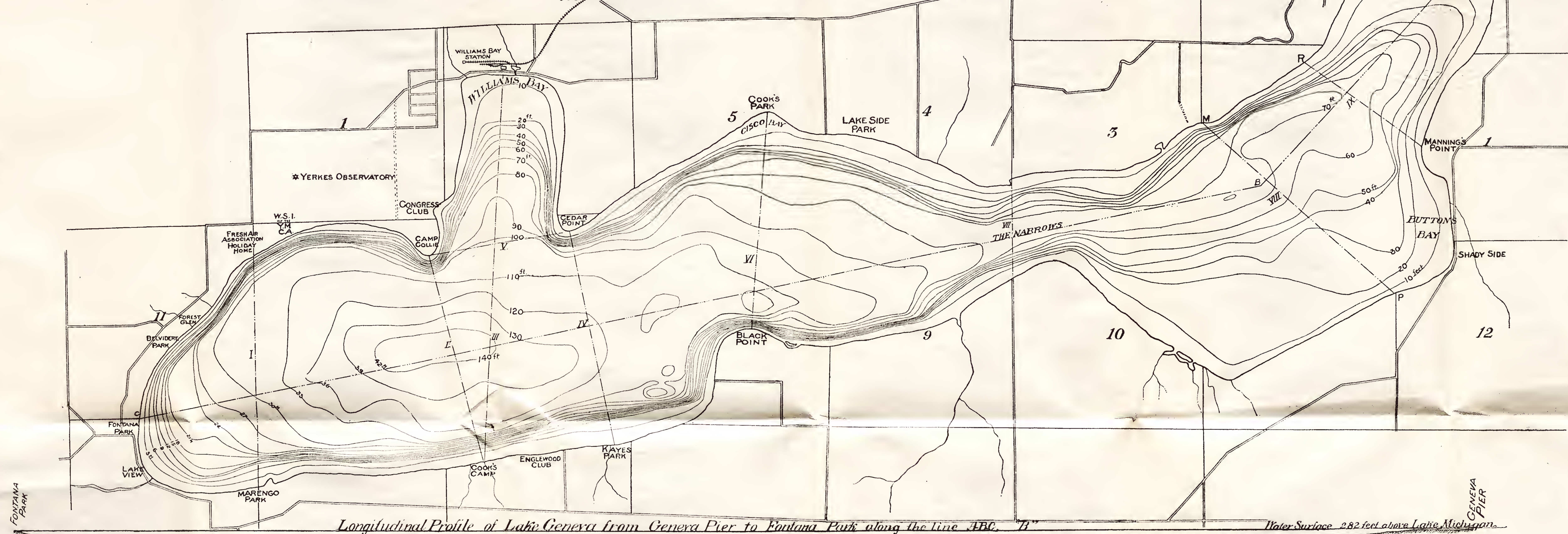
HYDROGRAPHIC MAP OF LAKE GENEVA WISCONSIN

PREPARED FROM SURVEYS BY THE
WISCONSIN GEOLOGICAL & NATURAL HISTORY SURVEY.

E. ABIRGE, PH.D. DIRECTOR.
Hydrography in charge of L.S. Smith C.E.

FIELD WORK BY H.M. TRIPPE
Contour Interval = 3 Meters.
9.84 Feet.

SCALE IN MILES
0 1/4 1/2 3/4 1
1898



Longitudinal Profile of Lake Geneva from Geneva Pier to Fontana Park along the line A-B, "B" Water Surface 282 feet above Lake Michigan

Fresh Air Asso. — Marengo Park
SECTION I "A"

GREATEST DEPTH 102.7 FT.
TOTAL LENGTH 1.3 MILES

SECTION I "B"

Camp Collie — Cook's Camp
SECTION II "A"

GREATEST DEPTH 142 FT.
TOTAL LENGTH 1.1 MILES

SECTION II "B"

Williams Bay Pier — Cook's Camp
SECTION III "A"

GREATEST DEPTH 140.7 FT.
TOTAL LENGTH 2 MILES

SECTION III "B"

Cedar Point — Kayes Park
SECTION IV "A"

GREATEST DEPTH 123.3 FT.
TOTAL LENGTH 1.1 MILES

SECTION IV "B"

Camp Collie — Cedar Pt.
SECTION V "A"

GREATEST DEPTH 99 FT.
TOTAL LENGTH 0.8 MILES

SECTION V "B"

**NOTE, SECTIONS MARKED "A" ARE
DRAWN TO NATURAL SCALE.
SECTIONS MARKED "B" HAVE
THE VERTICAL SCALE MAGNIFIED
THREE TIMES.**

Cisco Bay — Black Point
SECTION VI "B"

GREATEST DEPTH 121 FT.
TOTAL LENGTH 1.1 MILES

The Narrows
SECTION VII "B"

GREATEST DEPTH 75.4 FT.
TOTAL LENGTH 0.5 MILES

"M" to "P"
SECTION VIII "B"

GREATEST DEPTH 71.5 FT.
TOTAL LENGTH 1.4 MILES

"R" to Mannings Pt.
SECTION IX "B"

GREATEST DEPTH 68 FT.
TOTAL LENGTH 0.8 MILES

**NOTE, — ELEVATION OF WATER SUR-
FACE ABOVE SEA LEVEL IS 861 FT.
AND ABOVE LAKE MICHIGAN 282 FT.**